SINCLAIR OIL 1 KRYGER
8S-23W-32 NE SW YUMA #-22

32 x

SINCLAIR OIL 1 KRYGER
8S-23W-32 NE SW YUMA #-22

32 × 1

COUNTY YUMA AREA _____ LEASE NO. _____

WELL NAME SINCLAIR OIL 1 KRYGER 14-22

LOCATION _____ SEC 32 TWP 8S- RANGE 23W FOOTAGE est. 2450 fsl 2150 fwl

ELEV _____ GR _____ KB SPUD DATE ~March 1925 STATUS _____ TOTAL DEPTH 1400

COMP. DATE ~Apr 1925

CONTRACTOR

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH

DRILLED BY ROTARY _____

DRILLED BY CABLE TOOL _____

PRODUCTIVE RESERVOIR _____

INITIAL PRODUCTION _____

FORMATION TOPS	DEPTHS	SOURCE L.L.	SOURCE E.L.	REMARKS
tonse ?	972'			from USGS PP 726-D, 1973
non marine ?	1243'			
granite	1398'			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS

SAMPLE LOG _____

SAMPLE DESCRP. _____

SAMPLE NO. _____

CORE ANALYSIS _____

DSTs _____

REMARKS ? any relation between Sinclair Oil # 1 Kryger and the Yuma Basin Oil Co. # 1 Bus. Sinclair ? ☆ see P/N 14-14

APP. TO PLUG _____

PLUGGING REP. _____

COMP. REPORT _____

WATER WELL ACCEPTED BY _____

BOND CO. _____ BOND NO. _____

BOND AMT. $ _____ CANCELLED _____ DATE _____

FILING RECEIPT _____ LOC. PLAT _____ ORGANIZATION REPORT _____

API NO. 02-027- DATE ISSUED _____ WELL BOOK _____ PLAT BOOK _____

DEDICATION _____

PERMIT NUMBER ID 14-22

(over)

32 × 8

Hot Springs

~~Well~~ ~~Date Drilled~~ ~~Depth~~ ~~Cased~~ 2S-7W

~~Test 1~~ SINCLAIR WELL 7 Roger Kruger

Location: Sec. 32,, T 2S., R. 23W., ne qtr Ground Elv. 120

Cased: 617' 16-inch, 12 gauge stovepipe casing TD 1400

Drilled: March & April 1925

Remarks: Granite formation; later drilled to 1,400' (see Prog. Paper 726-D Table 1, p. 4 DH 15)

0	35	soil/sand
35	50	sand/gravel
50	53	clay
53	80	clay/gravel
80	132	hard clay
132	135	soft sandstone
135	188	heavy water gravel
188	456	sandstone
456	458	clay
458	503	sand/some gravel
503 -382	551 -430	sand/gravel water
551	566	blue shale
566	576	clay
576	590	sandstone
590	594	clay
~~88~~ 594	597	sand
597	617	hard clay

Contractor: J.W. Belt

(14-22)

32×

 USGS PP 726-D, 1973

TABLE 1. — *Depths of Tertiary and pre-Tertiary horizons in wells in the Yuma area*

[Location of wells shown on pl. 1. Leaders (.....) indicate not penetrated; query (?) alone indicates that penetration is questionable; with figures, that depth is questionable. USGS LCRP, U.S. Geological Survey lower Colorado River project test well; USBR, U.S. Bureau of Reclamation test well]

Well No.	Name of well or owner	Land surface elevation (ft)	Total depth (ft)	Depth, in feet, to top of unit: Transition zone	Bouse Formation	Older marine sedimentary rocks	Nonmarine sedimentary rocks	Basement complex	Remarks
DH-1	USGS LCRP 14	155.1	505	.....	209	.....	471	.....	
2	USGS LCRP 23	143.8	715	.....	548	.....	687	(?)	Possible basement complex at 703 ft.
3	Tanner Paving Co.	195	396	.....	.....	.....	(?)	.....	Possible nonmarine sedimentary rocks at 207 ft.
4	Gila Valley Oil & Gas Co. Kamrath 1.	145	2,140	.....	422	.....	482	.....	
5	USBR CH-6	140.5	501	.....	422	.....	497	.....	
6	B. Palon	423	603	.....	.....	.....	.....	563	
7	.....do	395	1,085	.....	700	.....	.....	1,082	
8	USBR CH-704; USGS LCRP 29.	150.8	1,997	794(?)	1,045	1,396	.....	.....	Top of transition zone may be at 885 ft.
9	USBR CH-8RD	128.5	360	.....	(?)	.....	.....	.....	Basalt 342-360 ft. Possible Bouse Formation at 328 ft.
10	San Carlos Hotel	145	173	.....	.....	.....	173	.....	Granite boulder at 173 ft.
11	Yuma School District No. 1	175	404	.....	.....	.....	(?)	.....	Possible nonmarine sedimentary rocks at 280 ft.
12	Abe Marcus Pool	175	478	.....	.....	.....	(?)	470	"Granite" at bottom. Possible nonmarine sedimentary rocks at 300 ft.
13	S & W Ranches	141	191	.....	.....	.....	.....	190	Do.
14	Stardust Hotel; USGS LCRP 13.	197	1,090	.....	.....	.....	.....	1,085	Porphyritic quartz monzonite at bottom.
15	Sinclair Oil Co. Kryger 1	120	1,400	.....	(?)	.....	1,243	1,396	"Granite" at bottom. Possible Bouse Formation at 972 ft.
16	Yuma County Fairgrounds	212	306	.....	.....	.....	.....	292	Do.
17	USGS LCRP 26	125.4	1,777	1,033	1,115	.....	1,380	.....	
18	Arizona Public Service Co.	117	978	(?)	.....	.....	.....	.....	Bottom in alluvium or transition zone.
19	USGS LCRP 28	118.7	2,466	1,927	.....	.....	.....	.....	
20	Colorado Basin Associates Elliott 1.	110	3,277	.....	.....	.....	.....	1,431	Drilled 1,846 ft into granitic basement.
21	Old oil test	118	730	.....	.....	.....	.....	730	Reported in Kovach, Allen, and Prese (1962).
22	USBR CH-21YM	188	285	.....	.....	.....	.....	267	Cored porphyritic quartz monzonite.
23	USGS auger hole	195	90	.....	.....	.....	.....	90	
24	.....do	196	79	.....	.....	.....	.....	79	
25	USBR CH-20YM	196	64	.....	.....	.....	.....	47	Cored porphyritic quartz monzonite.
26	USGS LCRP 25	204.6	2,318	2,101	.....	.....	.....	.....	
27	Colorado Basin Associates Federal 1.	170	6,007	2,367	3,112	3,802	4,937(?)	.....	Top of nonmarine sedimentary rocks may be at 4,302 ft.
28	M. P. Stewart Co. Federal 1.	181	3,660	(?)	(?)	(?)	.....	.....	Possible transition zone at 1,748 ft; possible Bouse Formation at 2,515 ft.
29	USGS LCRP 17	94	2,945	2,514	.....	.....	.....	.....	
30	Yuma Valley Oil & Gas Co. Musgrove 1.	90	4,868	2,525	3,395	4,350	.....	.....	
31	USBR CH-28YM	577.5	1,427	1,285	.....	.....	.....	.....	

S-23W-32
14-22

derlie most of the alluvium beneath the desert plains and river flood plains. This unit is composed of strongly to weakly indurated clastic rocks ranging from mudstone and shale (in part, of lacustrine origin) to megabreccia and boulder conglomerate. Fanglomerate, composed of angular to subrounded clasts of igneous and metamorphic rocks of local origin, seems to be the most widespread type.

The Tertiary nonmarine sedimentary rocks have an upper surface with at least several hundred feet of local relief and overlie a basement surface of even greater relief. The maximum thickness of this unit is not known, but at least 5,000 feet of the unit is exposed in both the Chocolate and the Laguna Mountains, and the aggregate stratigraphic interval exposed in these mountains may be more than 10,000 feet.

The Tertiary volcanic rocks, exposed most extensively in the Chocolate Mountains, are interbedded with the nonmarine sedimentary rocks. Included in this unit are tuffs and flows ranging in composition from basalt or basaltic andesite to rhyolite. Although an aggregate thickness of more than 2,000 feet is exposed in the Chocolate Mountains, the only known subsurface occurrence of this unit is an altered basalt penetrated at a depth of 342-360 feet in well DH-9, 3 miles north of Yuma (table 1).

Potassium-argon dates for several of the volcanic rocks from the Chocolate and Laguna Mountains range from 23 to 26 m.y. (Olmsted and others, 1973); a middle Tertiary age is therefore indicated for the volcanic rocks and associated nonmarine sedimentary rocks.

The older marine sedimentary rocks are composed of somewhat indurated fine-grained sandstone and interbedded siltstone and claystone. Their age is uncertain, but their stratigraphic position suggests that they probably intertongue with the upper part of the nonmarine sedimentary rocks of Tertiary age. The older marine sedimentary rocks occur entirely in the subsurface in the Yuma area; they have been penetrated in wells DH-8, DH-27, and DH-30, and possibly in DH-28 (table 1). The maximum known thickness of this unit within the area of well information is about 1,000 feet.

32 ×

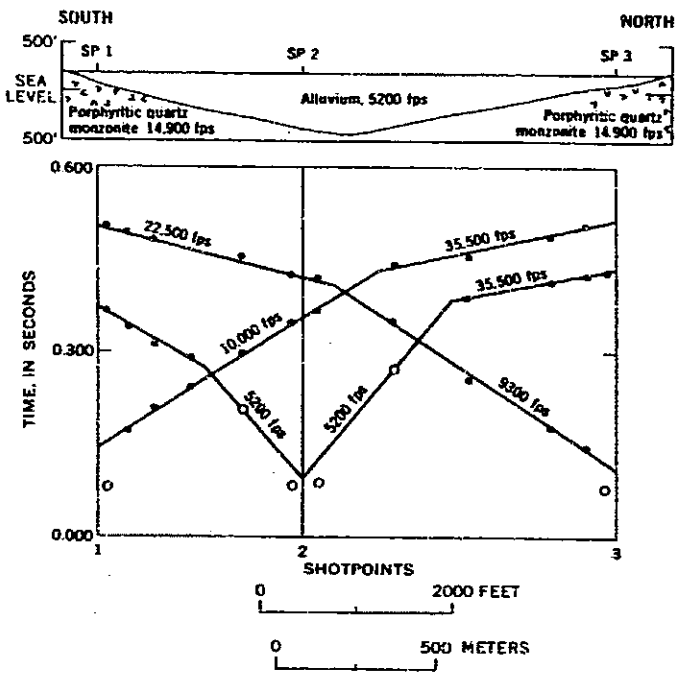


FIGURE 14. — Seismic-refraction profile 7 along Pacific Avenue in Yuma between two basement outcrops. SP, shotpoint; circles, alluvium arrivals; dots, basement arrivals.

anomaly, all bottomed in granitic basement rock — probably the porphyritic quartz monzonite exposed in the area (table 1). Of these wells, only possibly DH-12, which is near the exposures of Tertiary breccia and conglomerate (pl. 1), and DH-15 penetrated the Tertiary nonmarine sedimentary rocks between the alluvium and the basement complex. Well DH-14 penetrated "granite" (probably porphyritic quartz monzonite) at a depth of 1,085 feet beneath predominantly fine-grained alluvium. Well DH-15, farther down the western flank of the basement high from DH-14, appears to have penetrated the Bouse Formation and about 155 feet of underlying Tertiary fanglomerate between the alluvium and the basement complex, which was penetrated at a depth of 1,398 feet (table 1).

The area between the Mesa and Yuma anomalies was explored by gravity profile *C-C'* (fig. 15). *C-C'* extends north-northeastward from DH-24, across the gravity saddle between the Yuma and the Mesa anomalies, to the southernmost basement outcrop on the Yuma anomaly (pl. 5). If we assume a variable density contrast in accord with the data of figure 4 (0.44 g cm^{-3} for depths of 0-1,000 ft and 0.30 g cm^{-3} for depths greater than 1,000 ft), the computed model has a maximum

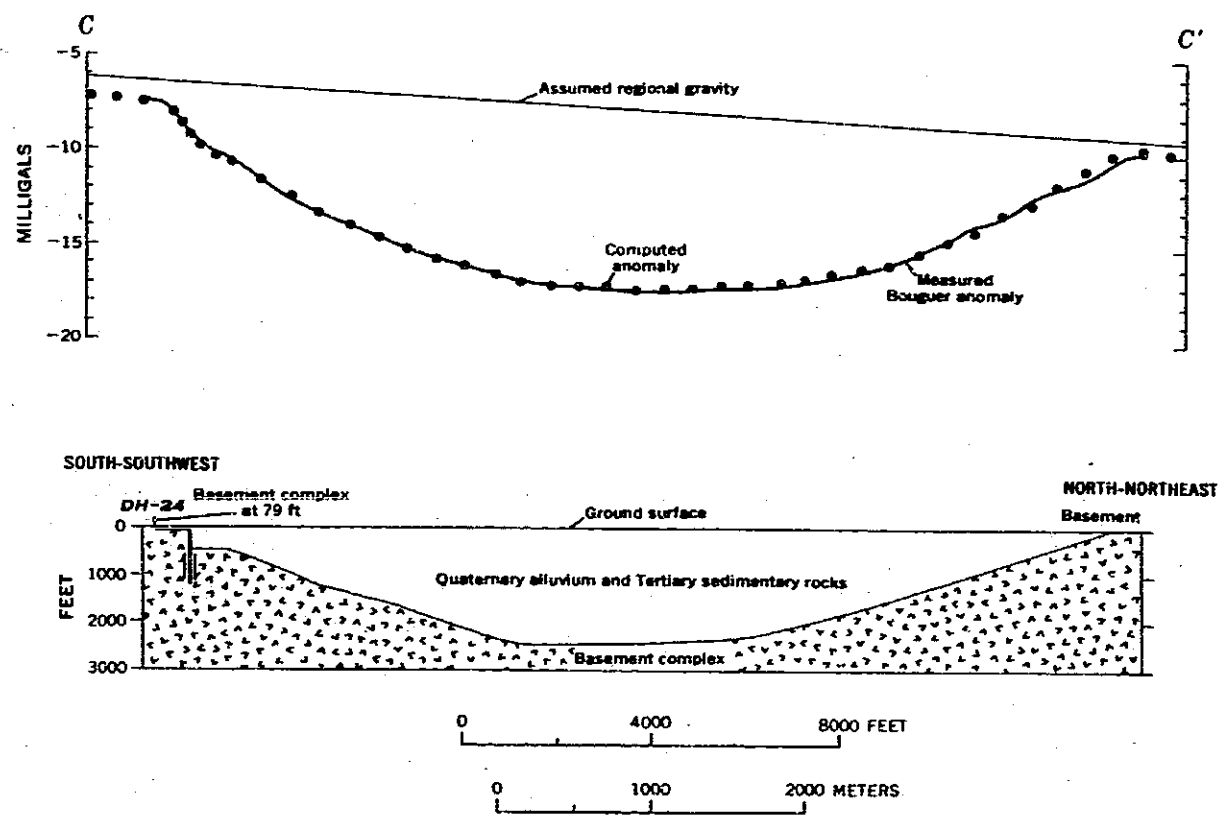
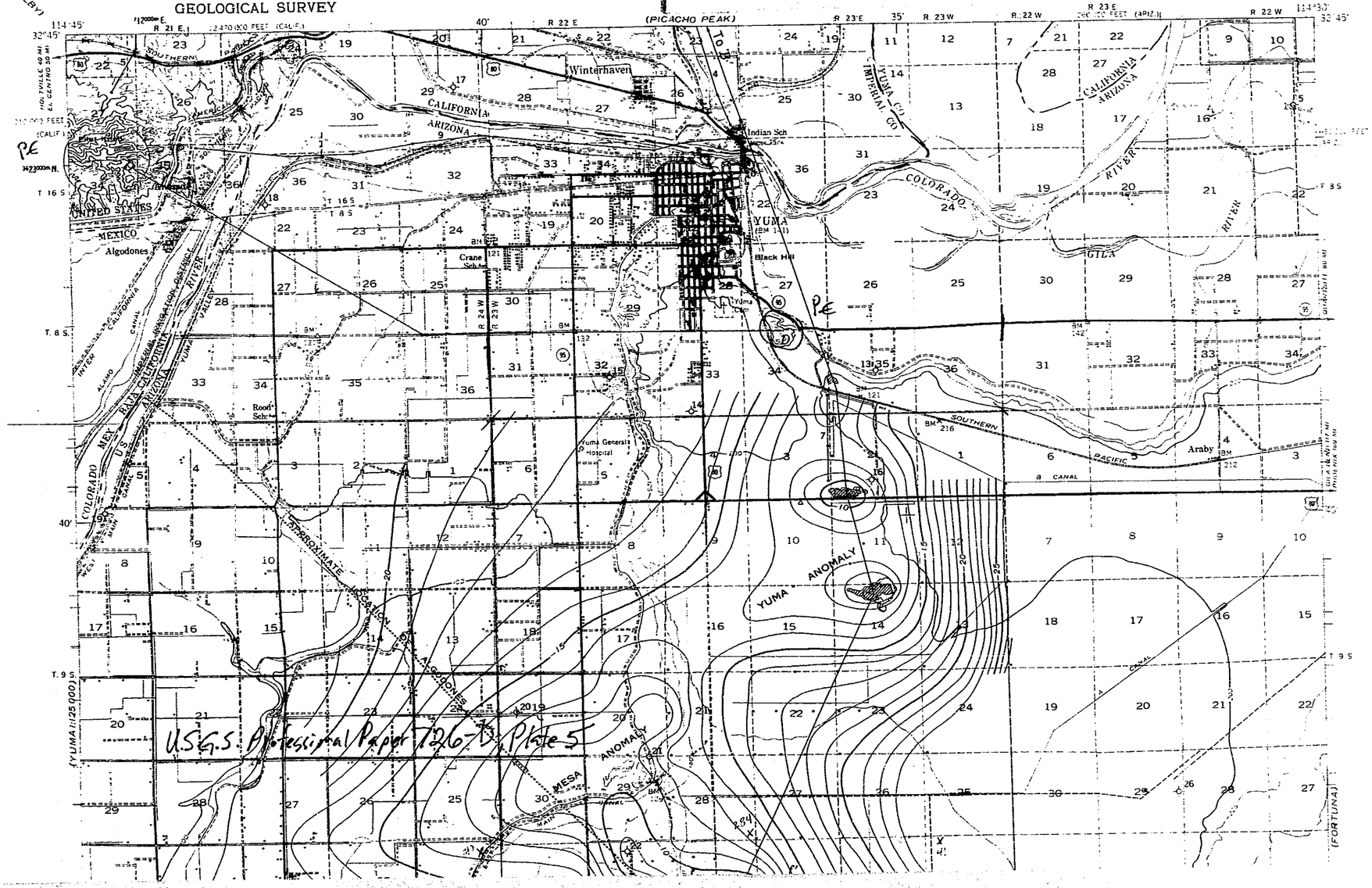


FIGURE 15. — Observed and computed gravity anomaly on profile *C-C'* across the gravity saddle between the Yuma and Mesa anomalies. Maximum sediment thickness is about 2,600 feet near the center of the trough.

32 × 1

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



U.S.G.S. Professional Paper 726-D, Plate 5

32×

25×

OIL AND GAS INVESTIGATIONS
MAP OM-201

By

Thomas F. Stipp and Helen M. Beikman

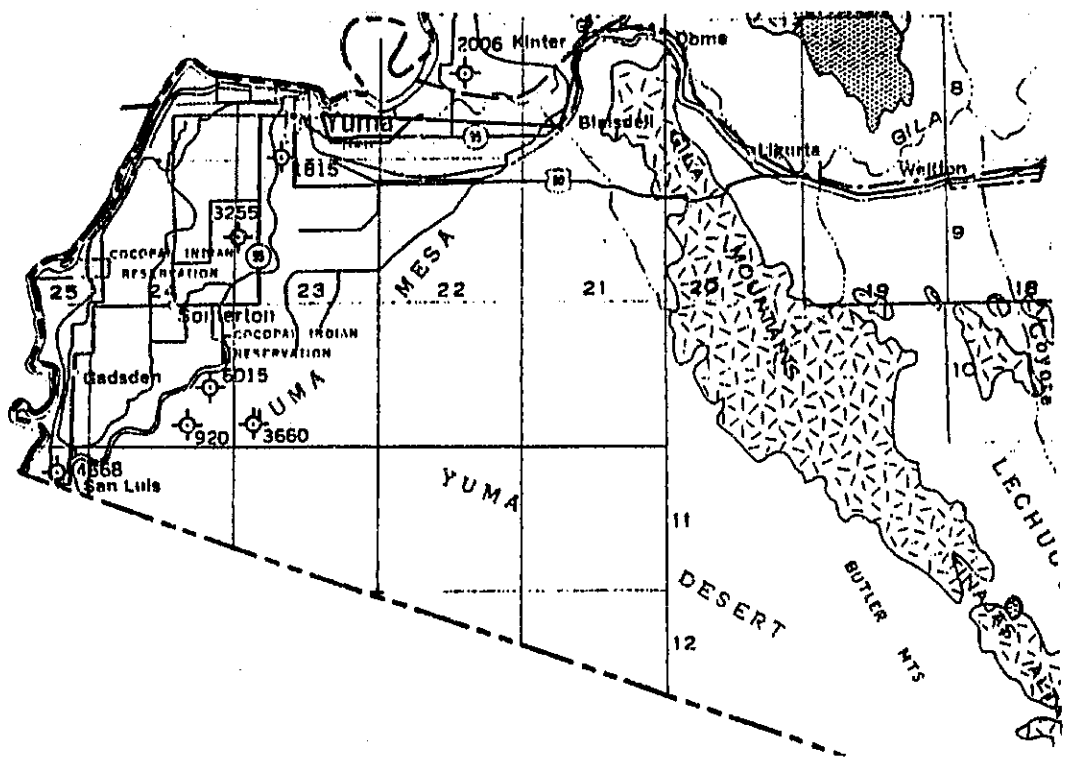
1959

→ TD + date same as Canfield Rpt of 1928, location same as Sinclair Oil Kluger #1 in USGS PP 726-D Hole #1 ?

Southwest quadrant

18	7 S	12 W	Yuma	Pat'd	Mitchell and others, Dunford 1	1943		2000	Qal	v	A
NE¼NW¼ 4	8 S	13 W	do	do	Loftus Baird, Stoval 1	1928		2630	Qal		A
SE¼SE¼ 32	8 S	23 W	do	do	Yuma Basin Oil Co., Sinclair 1	1926		1815	Qal		A
SW¼NW¼ 19	9 S	23 W	do	do	Colo. Basin Assoc., Inc., Newcomer and Pasquinelli 1	1955	110	3255	Qal	gr	A
NE¼NE¼ 31	10 S	23 W	do	Public	M. P. Stewart, Stewart 1	1954	189	3660	Qal	QT	A
NW¼SW¼ 24	10 S	24 W	do	do	Colo. Basin Assoc., Inc., Federal 1	1955	177	6015	Qal	QTg?	A
NW¼NW¼ 35	10 S	24 W	do	do	J. M. Hickey, Turbeville 1	1954	160	920	Qal	QT	A
NE¼SE¼ 15	8 S	22 W	do	Pat'd	Gila Valley Oil and Gas Co., Kamroth 1	1958	4173	2006	QTg		A
NW¼NE¼ 11	11 S	25 W	do	do	Yuma Valley Oil and Gas Co., Musgrove 1	1940	90	4868	Qal	QT?	A
South of Yuma			do		Colo. Delta Oil Co	1921		730	Qal	QT	A

* Location is approximate.



May 1, 1928

SCOUT REPORT OF ARIZONA

YUMA COUNTY:

B. W. Sinclair, SE¼ SE¼ Section 32, T. 9 S., R. 23 W., G. & S.R.M. Drilled to depth of 1,815 feet. Water not shut off. Operations suspended in February, 1926. Some showings of oil and gas reported. There is no evidence of structure. 14-14 ? Confused with Sinclair-Kryger #1 ?

MARICOPA COUNTY:

14-11 Frank Baird. Well No. 1. NE¼ NW¼ Section 4, T.8 S.,R.13 W., G. & S.R.M. Drilling at 2,400 feet in water and with cable tools, carrying 10-inch casing. Gas sand encountered at 1,650 feet, no oil shows. Formations penetrated mostly red clay, sand, gravel, and boulders. Well is located on a topographic high in an extremely broad valley. Well visited April 10, 1928. Information from Mr. Barkley, superintendent. (Yuma County

Camelback Well. NE¼ NW¼ Section 30, T. 3 N., R. 4 E., G. & S.R.M. Drilled in 1906 and 1907 to depth of 2,789 feet.

Condensed Log of Well.
5-5/8 inch casing set at 1,550 feet.

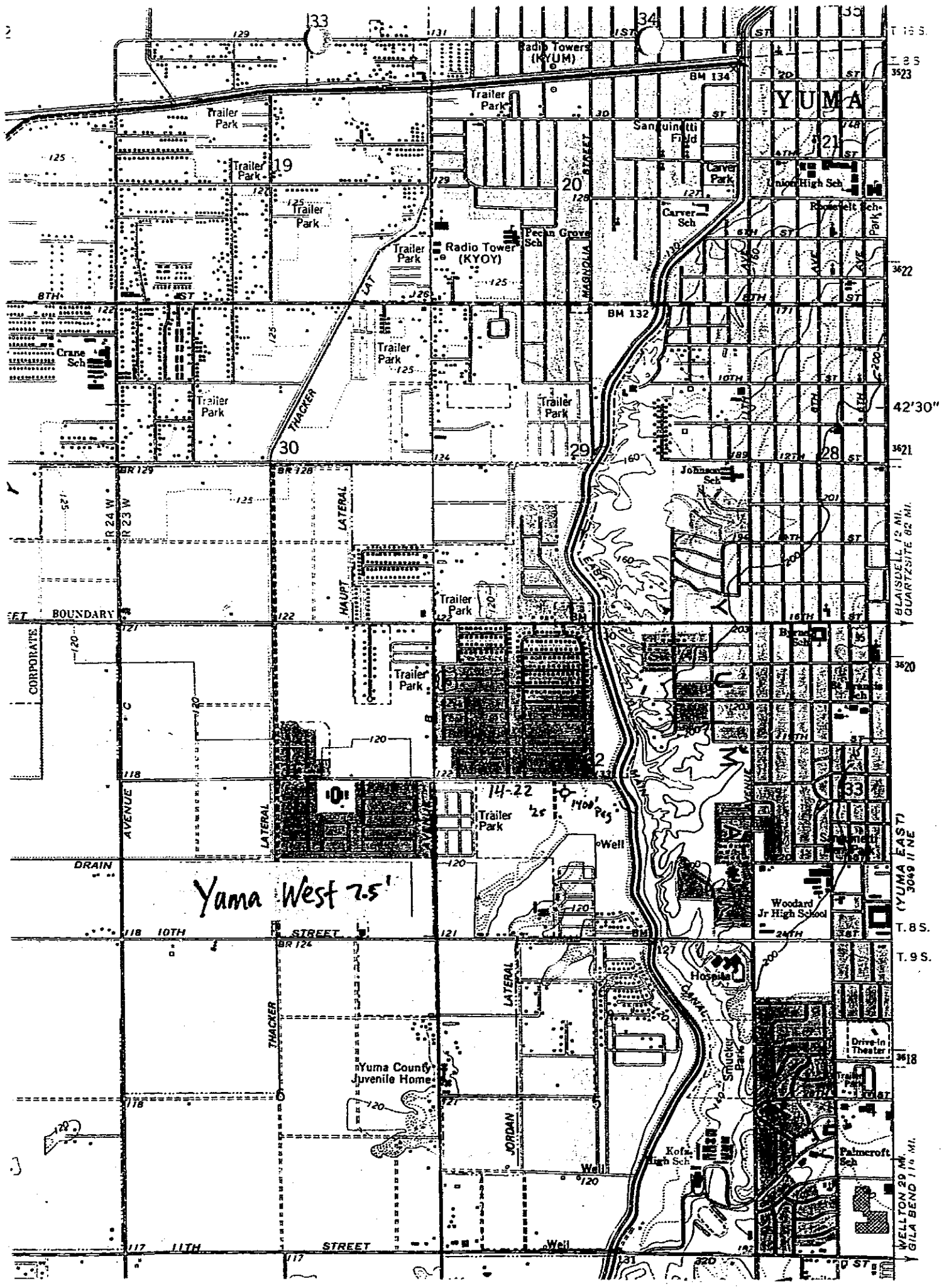
0- 130	Soil and cemental hardpan
130- 138	Loose granite - water
138- 388	Sandstone
388- 390	Granite and quartz
390- 415	Shale
415- 423	Blue granite - very hard
423- 846	Shale and heavy clay
846- 905	Shale, slate, and clay
905- 906	Sand - oil showing
906-1,028	Shale and clay
1,028-1,064	Gray sandstone - trace oil
1,064-1,110	Clay
1,110-1,117	White silica sandstone
1,117-1,300	Coarse gray sandstone
1,300-1,349	Clay
1,349-1,410	Sandstone
1,410-1,505	Sandstone
1,605 - 1,630	Hard gray sand
1,630 - 1,680	Hard gray sandston
1,680 - 1,690	Conglomerate - gra and red
1,690 - 2,250	Gray and brown san and sandstone
2,230 - 2,313	Red and gray clay
2,313 - 2,374	Gray sandstone
2,374 - 2,497	streaks of clay an gray sandstone. - oil smears on tool
2,497 - 2,668	Sand with trace of
2,668 - 2,690	Clay and gray sdst
2,690 - 2,698	Water sand
2,698 - 2,768	Gray sandstone
2,768 - 2,769	Clay and sand

Beardsley No. 1. SE¼ NE¼ Section 25, T. 4 N., R. 2 W., G.& S.R.M. Operations suspended in June, 1923. Well was abandoned at depth of 3,350 feet. Rig and all equipment removed. Well located in broad alluvial valley with no evidence of structure. Well visited April 11, 1928. 7-17

Condensed log of Beardsley No. 1.

0 - 746	Sand, clay gravel
746 - 1,743	Clay and water sands
1,743 - 1,745	Brown sandstone
1,745 - 1,930	Clay and brown sand
1,930 - 1,935	Brown sandstone
1,935 - 2,208	Clay
2,208 - 2,210	Gray sand showing globules of oil
2,210 - 2,430	Sand and sandy lime
2,430 - 2,518	Lime
2,518 - 2,540	Brown sand, showing light oil
2,540 - 3,040	Sand, sandstone with streaks of shale
2,040 - 3,050	Hard blue lime

32×



YUMA
Radio Towers (KYUM)
Radio Tower (KYOY)
Trailer Park
Sanguinetti Field
Carver Park
Union High Sch
Roosevelt Sch
Carver Sch
Pecan Grove Sch
Crane Sch
Johnson Sch
Byrne Sch
St Francis Sch
Woodard Jr High School
Hospital
Smucker Park
Drive-In Theater
Palmcroft Sch
Kofa High Sch
Yuma County Juvenile Home
Well
BM 134
BM 132
THACKER LAT
HAUPT LATERAL
JORDAN LATERAL
MAGNOLIA STREET
EAST MAIN
CANAL
CORPORATE BOUNDARY
DRAIN
AVENUE
10TH STREET
11TH STREET
R 24 W
R 23 W
T. 8 S.
T. 9 S.
42'30"
BLAISDELL 12 MI.
QUARTZSITE 82 MI.
(YUMA EAST)
3049 II NE
WELLTON 29 MI.
GILA BEND 114 MI.
14-22
Yuma West 7.5'

32×

RECEIVED
JAN 23 1976
GEOLOGICAL

OFFICE OF

Oil and Gas Conservation Commission

STATE OF ARIZONA

~~XXXXXXXXXXXXXXXXXX~~
PHOENIX, ARIZONA ~~85013~~
PHONE: (602) 271-5161

January 23, 1976

Same well? or 2 different wells?

Atlanta Richfield Company
501 Lincoln Tower Building
Denver, Colorado 80203

Attention: Exploration Department

Gentlemen:

Our records indicate that Sinclair Oil & Refinery Company drilled a well in Yuma County, Arizona Circa 1925 in the SE/SE/4 Sec. 32, T9S, R23W to a total depth of 1850'. The United States Geological Survey indicates this well to be drilled in Sec. 32, T8S, R23W to a dotal depth of 1400'. ⟹ T/N 14-22

T/N 14-14

If your company happen to acquire the old drilling records of Sinclair and could help us in resolving this difference in location it would certainly be appreciated.

Very truly yours,

W. E. Allen

W. E. Allen, Director
Enforcement Section

WEA/sl

February 10, 1976

Dear Mr. Allen:

Our records for this portion of Arizona are very sketchy; however, they do indicate a test to be drilled at the subject location. Operator is shown as B. W. Sinclair and not Sinclair Oil & Gas Company, total depth 1815', completed February 1926. Copy of our scout ticket is attached. I trust that this may be of some benefit.

D. E. Daugherty

D. E. Daugherty
District Geologist
Atlantic Richfield Company

Att.

RECEIVED
FEB 17 1976
O. & G. CONS. COMM.

32 ×

FORM 81 SPO DATA

COUNTY Yuma FIELD

MAP NO 3 SEC 32 TWP 9S RGE 23W

COMPANY ~~Yuma Basin Oil Co.~~ B.W. Sinclair

WELL NO 1 FARM

ELEVATION: FEET FROM LINES:

TRINITY SKN N E

BL GYP R F S W

WELL ANY BURB

GR WASH BTVL SE SE

CHASE BR LS FIRST REPT: LOC RIG

TARKIO BOOCH COMMENCED DRLG COMP Feb 1926

HOXBAR ATOKA CASING RECORD:

TOPEKA GILC

PAW LS DUTCH TUBING RECORD:

HOOVER BURG GAS SAND OIL SAND

OREAD GORHAM TOTAL DEPTH 1815 P. B. DEPTH

95 14-14

SC	IN	TWP	RGE	SEC	%	%	%	ST	CTY	FIELD	CL	COMPLETION NO	DAY	YR
1		8S	23W	32			SE	SE	Ar	Yum	7			26

DATA CONT'D BELOW	OPERATOR	WELL NO & NAME	ELEVATION	TOTAL DEPTH	INIT PROD	POUR PERIOD	CO
1	Yuma Basin Oil Co.	1 Sinclair		1815			1

LOCATION DESCRIPTION	NO.	SPUD DAY	YR	SURFACE CASING	CASING	PLUG BACK	REFERENCE CODE
2							

CASING	PERFORATED INTERVALS	GRAVITY	CUT	CHOKE	STOC FROM INCHES	PROD FM
3						

SC	FM	TOP	S	FM	TOP	S	FM	TOP	S	FM	TOP	S	FM	TOP	S
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															

USGS ~~[illegible]~~ 9 S

Confidential Report 1928

CODES

(C1) WELL CLASS: WILDCAT -W, DEVEL. -D; 2 – FIELD, 5 – STRAT, 8 – DEEPENING; X – RECOMPLETION, 1 – INJECTION, R – REDRILL

(C2) INITIAL PRODUCTION: 1 – D & A, 2 – BOPD FLOW, 3 – BOPD-PUMP; 4 – MCFGPD, 5 – B. OIL PD, 6 – B. COND. PD; 7 – SUSPENDED, 8 – BOPD - SWABBED

ABBREVIATIONS: O – OIL, G – GAS, S – SHOW, W – WATER

PETROLEUM INFORMATION-1197 WHCS-BC-BK-1

DATA CONTAINED HEREIN NOT WARRANTED

32 × 1

March 31, 1970

Mr. Benjamin F. Hoffacker, Jr.
306 Midland National Bank Building
Midland, Texas 79701

Dear Mr. Hoffacker:

In regards to the wells you inquired about, we have an electric log on the Colorado #1 Federal (total depth 6015'). Also, there is an AmStrat log (sample log) on this well which is available at: American Stratigraphic Company, 1820 Broadway, Denver 2, Colorado.

no file

As to the Yuma #1 Sinclair, I am sorry that we have nothing at all in our files; however, it might be worth your while to inquire for data on this well at the U. S. Geological Survey in Yuma. If we can be of further assistance, please advise.

Yours truly,

James Scurlock
Geologist

JS:jd
Enc.

32×

Yuma 1 Sin[illegible]ir 9S-23W-32 SE SE
O&G CC ID[illegible]o. 14-14

Log of well drilled in Section 32 seven miles south of Yuma

Commenced October 5, 1924: Nick Carter; Driller.
Completed January 25, 1925:

0	- 15	surface sand
15	- 35	gravel
35	- 72	clay
72	- 98	water sand
98	- 163	clay
163	- 291	sandy shale
291	- 327	water sand
327	- 419	grey shale
419	- 678	shale and boulders
678	- 739	red bed
739	- 744	lime shell
744	- 789	sand
789	- 863	sandy shale
863	- 903	red bed
903	- 1012	sandy shale and lime shells
1012	- 1019	sand - showing gas
1019	- 1078	sandy shale
1078	- 1137	grey shale
1137	- 1206	sandy shale and lime shells
1206	- 1226	sand - showing oil
1226	- 1393	rotten shale
1393	- 1409	lime shell
1409	- 1481	brown shale
1481	- 1531	sandy shale and lime shells
1531	- 1596	red bed
1596	- 1639	hard shale
1639	- 1683	shale and shells
1683	- 1756	hard sand
1756	- 1800	sandy shale
1800	- 1828	oil sand: cored 1824-1828, fine brown sand, strong odor.

1828 T.D. shut down for casing.

P/Bit

#14-14

RECEIVED
JAN 17 1975
O & G CONS. COMM.

32×

[illegible] this folder 14-23

Smead
No. ET1515CMT
HASTINGS, MN.
LOS ANGELES-CHICAGO-LOGAN, OH.
McGREGOR, TX-LOCUST GROVE, GA.
U.S.A.

U.S.B.R., C.H. 28YM Yuma Cty. #14-23
13S.20W.2

WELL NAME USBR CH28YM 2,135-20W

LOCATION _____ SEC 2 TWP 135 RANGE 20W FOOTAGE _____

ELEV 5?8 GR _____ KB SPUD DATE _____ STATUS _____ COMP. DATE _____ TOTAL DEPTH 1427

CONTRACTOR

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH

DRILLED BY ROTARY _____

DRILLED BY CABLE TOOL _____

PRODUCTIVE RESERVOIR _____

INITIAL PRODUCTION _____

14-23

FORMATION TOPS	DEPTHS	SOURCE ~~t.t.~~ Sur Elev	E.L.	REMARKS
Older & Younger Alluvium		Surf		
Triassic Tw Zn		1285		
TD		1427		

ES-SP, GR-Sonic

32 ×